

ABSTRACT**MONITORING INSERTION/REMOVAL OF SERVER****BLADES IN A DATA PROCESSING SYSTEM**

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A system, method, and software for monitoring server blades in a server system. The system may include a cabinet having a plurality of racks configured to receive a server blade. The server blade typically includes one or more general purpose microprocessors, a volatile system memory, and a service processor all interconnected via one or more busses. In addition, the system would typically include a management blade that included a system service processor configured to monitor the local service processors attached to each server blade. Upon installation, a new blade identifies itself to the system management blade by its physical slot position within the cabinet and by the blade characteristics needed to uniquely identify and power the blade. The software may then configure a functional boot image on the blade and initiate an installation of an operating system. In response to a power-on or system reset event, the local blade service processor reads slot location and chassis identification information and determines from a tamper latch whether the blade has been removed from the chassis since the last power-on event. If the tamper latch is broken, indicating that the blade was removed, the local service processor informs the management blade and resets the tamper latch. The local service processor of each blade may send a periodic heartbeat message to the management blade. The management blade monitors for loss of the heartbeat signal from the various local blades, and thus is also able to determine when a blade is removed.

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